Performance Data Sheet

AE2413U-AA1A

General Information

Model	AE2413U-AA1A	**Refrigerant**	R-290
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	35°C (95°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
-40	Btu/h	648	577	520	475	441	417	402
	Watts	186	181	181	185	192	201	210
	Amps	2.98	2.94	2.94	2.96	3.01	3.08	3.15
	Lb/h	4.32	3.97	3.74	3.63	3.61	3.68	3.82
-35	Btu/h	795	711	640	581	531	491	458
	Watts	206	199	198	200	206	212	219
	Amps	3.09	3.04	3.03	3.04	3.07	3.11	3.17
	Lb/h	5.36	4.95	4.65	4.44	4.32	4.28	4.28
-30	Btu/h	946	851	767	693	629	572	522
	Watts	223	216	214	216	219	224	229
	Amps	3.20	3.14	3.11	3.11	3.13	3.17	3.20
	Lb/h	6.42	5.95	5.58	5.30	5.09	4.94	4.83
-25	Btu/h	1110	998	901	814	734	661	594
	Watts	239	232	230	231	234	238	242
	Amps	3.29	3.23	3.20	3.20	3.21	3.23	3.26
	Lb/h	7.51	7.00	6.58	6.23	5.94	5.70	5.48
-20	Btu/h	1270	1160	1050	944	850	762	678
	Watts	254	247	245	245	248	252	255
	Amps	3.38	3.32	3.29	3.28	3.29	3.31	3.33
	Lb/h	8.64	8.11	7.64	7.24	6.88	6.56	6.25
-15	Btu/h	1450	1320	1200	1090	979	874	774
	Watts	266	260	259	260	264	267	271
	Amps	3.45	3.40	3.38	3.37	3.39	3.41	3.43
	Lb/h	9.85	9.29	8.80	8.35	7.94	7.55	7.16
-10	Btu/h	1650	1510	1370	1240	1120	1000	885
	Watts	277	273	273	275	279	284	288
	Amps	3.51	3.48	3.46	3.47	3.49	3.51	3.54
	Lb/h	11.1	10.6	10.1	9.58	9.13	8.68	8.21
-5	Btu/h	1860	1710	1560	1420	1280	1150	1010
	Watts	286	284	286	290	296	302	307
	Amps	3.57	3.55	3.55	3.57	3.60	3.64	3.67
	Lb/h	12.5	12.0	11.5	11.0	10.5	9.96	9.44

0	Btu/h	2090	1920	1770	1610	1460	1310	1160
	Watts	294	295	299	306	313	321	328
	Amps	3.61	3.61	3.63	3.67	3.72	3.78	3.82
	Lb/h	14.0	13.5	13.0	12.5	12.0	11.4	10.9
5	Btu/h	2330	2160	1990	1820	1660	1500	1330
	Watts	301	304	312	321	332	342	351
	Amps	3.64	3.67	3.72	3.78	3.85	3.93	3.99
	Lb/h	15.7	15.2	14.7	14.2	13.7	13.1	12.5
10	Btu/h	2600	2420	2240	2060	1880	1700	1520
	Watts	306	313	324	337	351	364	376
	Amps	3.66	3.72	3.80	3.90	4.00	4.09	4.18
	Lb/h	17.5	17.0	16.6	16.1	15.5	15.0	14.3

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.714436E+03	5.656678E+02	5.247753E+00	2.088825E+01
C2	5.681278E+01	-4.818142E+00	-4.392584E-02	1.867472E-01
C3	-2.537849E+01	-7.929257E+00	-4.696014E-02	-1.311193E-01
C4	3.655508E-01	-1.183912E-01	-9.945142E-04	9.434388E-04
C5	-3.139005E-02	9.445724E-02	7.744534E-04	2.646221E-03
C6	7.856286E-02	7.293258E-02	4.220490E-04	7.600316E-04
C7	2.792205E-03	1.097995E-04	6.146199E-08	2.383794E-05
C8	4.389184E-04	1.134497E-03	9.874317E-06	2.290179E-05
C9	-1.062176E-03	-2.046989E-04	-1.645444E-06	-1.291669E-05
C10	-1.968642E-04	-2.030729E-04	-1.138120E-06	-2.392210E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature